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From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
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Subject: Ham-Ant Digest V94 #367
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Ham-Ant Digest Sun, 6 Nov 94 Volume 94 : Issue 367

Today's Topics:

Copper Pipe Yagis? (2 msgs)
Dipole question's
Dual Band J-Pole?
J-Pole for 2 meters
Need Info:Multi Band Dipole
Twinax for feedline
x-beam vs yagi, ELNEC

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Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 3 Nov 1994 17:45:37 GMT
From: clifto@indep1.chi.il.us (Clifton T. Sharp)
Subject: Copper Pipe Yagis?

In article <CyLMyn.1BF@hpcvsnz.cv.hp.com> tomb@lsid.hp.com (Tom Bruhns) writes:
>How about a baby blue beam??

Naw, make it red... for maximum rediation.

--

Cliff Sharp
WA9PDM
clifto@indep1.chi.il.us

Never get into fights with ugly people.
They have nothing to lose.
--The Fourth Law of Reality

Date: Fri, 4 Nov 1994 19:56:22 -0500
From: Tony Stalls <rstalls@access4.digex.net>
Subject: Copper Pipe Yagis?

Hi Jerry,

> 1. Cost. Copper pipe is a lot more expensive than aluminum, but you already
> know this.

I figured the cost of bringing in aluminum tubing from Texas v. getting the Cu tubing from the handyman store, and especially adding in the instant gratification factor, it isn't that much more expensive.

> 2. Weight. Copper weighs a lot more than aluminum.

True, and I realized that too. For a small VHF Yagi (6 meters even), I don't think it's enough heavier to make that much difference.

The real incentive is the "instant gratification" part. I sometimes decide on a quick antenna project and by the time I get around to ordering up the tubing and so on, the moment has passed and nothing gets done. However, a visit to the local Home Depot (etc.) can yield the tubing and fittings within a half-hour and the thing can be up and working in an afternoon. The other part is that working with copper is easy and I can experiment my little heart's content.

It's obviously not the most practical thing to do, but what the heck. The ultimate bottom line for doing it is the reason I've been playing with amateur radio all these years: Fun! ;-)

Thanks for the input!

73,

Tony
K4KY0

Date: Thu, 3 Nov 1994 20:27:47 +0000
From: chasr@parc.demon.co.uk (charles rodgers)
Subject: Dipole question's

In article <38u6vm\$mf@chnews.intel.com>
cmoore@scorpion.ch.intel.com "Cecil A. Moore -FT-~" writes:

> I chose 88 ft for my multi-band dipole

Hi Cecil,

I'd be very interested to know what the feeder you use with that dipole.
I assume that you mean 44 ft each side.
I have used such a dipole in inverted V formation with an open wire feeder
and it performed very well on 20m but not so on 17m.

--

charles rodgers
chasr@parc.demon.co.uk

Date: 5 Nov 1994 12:44:44 GMT
From: wvanho@infinet.com (W. E. Van Horne)
Subject: Dual Band J-Pole?

Rafael Solis (rafaels@zimmer.CSUFresno.EDU) wrote:
: Folks!

: Is it possible to build a 2m/73cm dual band J-Pole?

Ken, N9YIR called attention to the recent QST article. The gist of the
article is that the 73 cm. band is the third harmonic of the 2 m. band.
The antenna described was cut for 2 m. and operated on both the
fundamental and third harmonic. From that, I assume that ANY full-size
J-Pole antenna will do the same thing.

Cautionary note: I am NOT speaking from experience. Perhaps others can
correct me if I am wrong. Note my signature, below. :-)

73, Van - W8UOF

* * * * *
* It ain't wot ya don't know 't gets ya into trouble. *
* It's wot ya know 't ain't true. - "Mr. Dooley" *
* * * * *

wvanho@infinet.com

Date: Thu, 3 Nov 1994 03:44:04 GMT
From: wa2ise@netcom.com (Robert Casey)
Subject: J-Pole for 2 meters

In article <3Anjkep56dTS066yn@calvin.stemnet.nf.ca> ydawe@calvin.stemnet.nf.ca
(Yvonne M. Dawe) writes:

>I have saved several examples of construction plans for 2m copper
>cactus and 300 ohm twin-lead j-poles with the intention of eventually
>making one, however, upon closer inspection of the details I notice that
>at least two individuals say to connect the sheild to the 1/4 wave matching
>stub, while in other "plans" they say to connect the sheild to the other
>side. Who is wrong? Or are both right? Can anyone please tell
>me: What side does the sheild go to, and what side does the center
>conductor go to..?

As I understand it, it works either way. One should place some ferrite beads or make a few turns of coax in the feedline near the feedline connection to the Jpole. These beads or coil act as a sort of balun. The shield passing thru it is no longer "RF" ground. The center conductor doesn't "notice" the balun, nor does the *inside* of the coax shield. The outside of the shield having passed thru the balun acquires something like -1/2 the transmitted RF voltage. This minus 1/2 gets added to the shield to center 1 x RF from transmitter to give a +1/2 the transmitted RF voltage. You're effectively going from 50 ohm unbalanced to 50 ohm balanced. The Jpole is across the -1/2 RF to +1/2 RF terminals described above. So, it doesn't really matter which side gets the center conductor. Whichever is more convenient mechanically.

It's similar to the coax feeding a dipole, with ferrite beads or a coil of coax at the feedpoint trick. Keeps RF off the *outside* of the coax and avoiding a messed-up radiation pattern.

Date: 5 Nov 1994 09:42:07 -0800
From: teixeira@ccnet.com (TEIXEIRA)
Subject: Need Info:Multi Band Dipole

Back in my novice days I built a multi band dipole. The antenna was a 1/2 wave dipole with a seperate wire for 40m,15m & 10m. The swr on 40 was 1.5 but it was above 3.0 on 15 & 10. I never could get it down. Now my neighbor who is a new Ham wants to use this design. Any info on tuning this beast. Does it require a tuner? It worked excellent on 40M.

Tnx-Don N6FNL

Date: 6 Nov 1994 03:33:09 GMT
From: choffman@pinot.callamer.com (Christopher R. Hoffman)
Subject: Twinax for feedline

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TNX - 73's
Chris Hoffman
K06GA ex. KD6VLY
choffman@slonet.org

Date: 4 Nov 1994 09:48:31 -0500
From: jimn0oct@aol.com (JimN0OCT)
Subject: x-beam vs yagi, ELNEC

In article <395q8l\$ic3@ornews.intel.com>, zardo@ornews.intel.com (Jim Garver) writes:

about different antennas for rs/10. I have used a dipole and others, but keep coming back to the dipole. Two might be nice, one E/W the other N/S. They're simple, and you don't have to keep rotating them.. They work great on rs12/13 too.

72, jim

End of Ham-Ant Digest V94 #367
